

## Case 403 : Narrative

Case Vehicle (A): 1998 Ford	Vehicle (B): 1991 Peterbilt
Type: Escort SE, 4-door sedan	Type: 357 Tractor with double trailer
Driver: 31-year-old female	Driver: 42-year-old male
CDC: 12-FDEW-3, 03-RFEN-3, 03-RBEE-2	CDC: 99-0000-0, 99-0000-0, 99-0000-0

### SITUATION

[1](#) [2](#) [3](#) On a clear day, case vehicle (A) was traveling north at an unknown speed in the left through-lane of a dry five-lane, two-way, concrete road, in an urban area. [4](#) Vehicle (B), a tractor-trailer rig with two trailers, was traveling west in the center lane of a three-lane exit ramp from a limited-access highway, which intersects the north-south road at a four-way traffic-light-controlled intersection. [5](#) [6](#) As vehicle (B) entered the intersection on a green light and began turning left to travel south, case vehicle (A) also entered the intersection through a red light and the front of case vehicle (A) struck the left-rear section of the first trailer of vehicle (B). Case vehicle (A) then rotated counterclockwise and the right fender struck the left-front section of the second trailer. Case vehicle (A) continued to rotate counterclockwise and the right quarter panel struck the second trailer. It was reported that the driver of case vehicle (A) has a history of seizures and may have had a seizure prior to the collision. Case vehicle (A) was towed from the scene, while vehicle (B) was driven away.

The police accident report (PAR) indicates C-level injuries for the driver of case vehicle (A) who was taken by ambulance to a local area hospital, where she was hospitalized for one day. The driver of vehicle (B) was not injured.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[7](#) Direct damage to the front of case vehicle (A) was moderate and began at the left-front bumper corner and extended 138-cm across the front, resulting in 87-percent vehicle overlap (% VOL). The maximum frontal crush was 57 cm and it occurred at the left section of the bumper. [8](#) Damage from the second impact began 8-cm rearward of the right-front axle and extended 28-cm forward along the right fender. The maximum lateral crush was 16 cm and it occurred at the right fender above the right-front wheel. [9](#) Damage from the third impact began at the right-rear bumper corner and extended 36-cm along the right quarter panel, with a maximum lateral crush of 14 cm.

[10](#) [11](#) [12](#) [13](#) [14](#) Using the WinSMASH crash-reconstruction program and crush profiles measured for case vehicle (A), the following impact severity was estimated for the frontal impact to case vehicle (A):

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	38 (23)	-36 (-23)	-10 (-6)

### DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

## Exterior

[15](#) [16](#) In the front, the left and center portions of the front bumper were crushed rearward into the engine compartment, [17](#) the right portion of the bumper was pulled out, [18](#) and the bumper cover was separated from its attachments. [19](#) Both headlight assemblies were broken, the hood was crushed and pushed up and to the rear on both sides, and the damaged hood latch was jammed. [20](#) Both hood hinges were deformed but not separated and the elevated rear edge of the hood contacted and [21](#) [22](#) cracked the lower portion of the windshield with the cracks radiating up through the entire windshield. There was also a small spider-web crack to the left and below the center rearview mirror.

[23](#) On the right side, the fender was crushed and shifted to the left. [24](#) The right-front wheel was crushed in and there was a tire imprint from vehicle (B) on the hubcap. [25](#) [26](#) There was no damage to the right A-, B-, and C-pillars and the right-side doors were undamaged and operable. [27](#) The right-rear door window was broken and the window frame was displaced out. [28](#) The rear section of the right quarter panel was crushed and the right taillight assembly was broken. [29](#) There was no damage to the right-rear wheel and the right wheelbase was increased by 2 cm.

[30](#) On the left side, the fender was crushed rearward [31](#) and the left-front wheel was pushed rearward into the lower section of the left A-pillar. The left-front tire was deflated and the left wheelbase was reduced by 23 cm. [32](#) The upper and lower sections of the left A-pillars were damaged and the driver door was pushed to the rear, causing the door to be jammed closed. [33](#) [34](#) The driver door had been pried open during extrication of the driver, which resulted in damage to both left-side doors. [34](#) The driver-door window was broken, probably because of extrication. There was no damage to left B- and C-pillars. [35](#) [36](#) There was also no damage to the left-rear wheel and there was no deformation to the left quarter panel.

[37](#) There was no damage to the rear of case vehicle (A).

## Interior

[38](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, which deployed during the frontal impact. [39](#) In the driver seating area, there was no damage to the roof, to the roof header, or to the left A-pillar, but there were numerous cracks in the left section of the windshield, including a small spider-web crack just above the middle of the windshield to the right of the steering wheel. [40](#) There was no damage to the steering wheel [41](#) [42](#) but the steering column was rotated down and to the left. [43](#) There was no damage to the steering-wheel airbag but there were bloodstains on the center section of the fabric. There was no damage to the upper portion of the instrument panel [44](#) but the left section of the mid instrument panel and the knee bolster were damaged. [45](#) The driver section of the toepan was displaced to the rear but there was no damage to the foot controls. [46](#) The interior of the driver door was bowed out from extrication and the door armrest was stained with blood.

[47](#) [48](#) [49](#) Other than cracks radiating up through the windshield, there was no damage to the interior in the center-front area.

[50](#) In the right-front seating area, there was no damage to the roof, to the roof header, or to the right A-pillar. [51](#) There was a dense pattern of circular shaped cracks in the right section of the windshield from contact by the airbag cover during airbag deployment. [52](#) There was no damage to the dash-mounted airbag or to the airbag cover and there was no damage to the glove box. [53](#) The right-front section of the toepan was displaced to the rear.

[54](#) [55](#) In the rear seating area, the seat backrests were broken by large bags of sand in the trunk that moved forward during the frontal impact. [56](#) [57](#) The forward section of the right-rear door panel was cracked and dented and [27](#) the right-rear door window was broken out, probably from contact by one of the bags of sand.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
left front	toepan	19	to rear
right front	toepan	9	to rear

## OCCUPANT KINEMATICS AND INJURIES

[58](#) The 170-cm, 102-kg (5-ft 7-in, 225-lb) 31-year-old female driver was using the three-point belt and the steering-wheel airbag deployed. [59](#) [60](#) [61](#) [62](#) [63](#) Belt use at the time of the crash is indicated by webbing loading marks on the D-ring and continuous loop, and by D-ring loading marks on the shoulder belt. [64](#) The shoulder-belt anchor point on the B-pillar was adjusted to the highest position.

During the frontal impact, the belt-restrained driver moved forward relative to the vehicle interior, [65](#) into the belt restraints, airbag, and knee bolster. She sustained contusions across the left shoulder/clavicle that extended down across both breasts from loading by the shoulder belt. [66](#) [67](#) She sustained multiple contusions to the left leg below the knee, probably from contact with the knee bolster and mid portion of the left instrument panel, as evidenced by damage and scuffmarks to the bolster and panel.

The following table [68](#) and attached drawing summarize the injuries for the belt-plus-airbag restrained driver.

Occupant: Driver	Age: 31 years	Gender: Female		
Restraints: 3-point belt, steering-wheel airbag	Stature: 170 cm (5 ft, 7 in)	Mass: 102 kg (225 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Contusion, across left shoulder/clavicle	1	Shoulder belt	—	—
Contusion, left breast	1	Shoulder belt	—	—
Contusion, right breast	1	Shoulder belt	—	—
Multiple contusions, left leg below the knee	1	—	Knee bolster/mid instrument panel	—

Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO.: 403

CASE VEHICLE: 1998 Ford

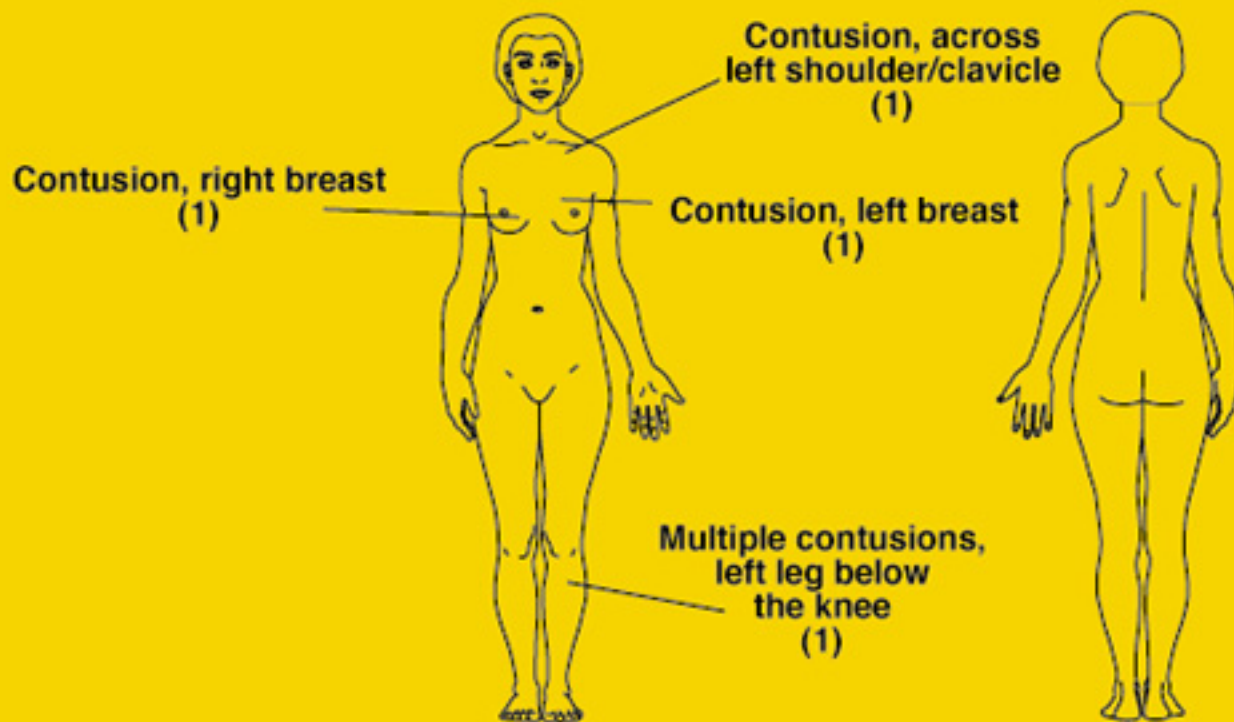
TYPE: Escort SE, 4-door sedan

OCCUPANT: (Driver) 31-year-old female

STATURE: 170 cm (5 ft, 7 in) MASS: 102 kg (225 lb)

RESTRAINTS: 3-point belt, steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 1



Case No.: 403

Case Veh. (A): 1998 Ford

Type: Escort SE, 4-door sedan

Driver: 31-year-old female

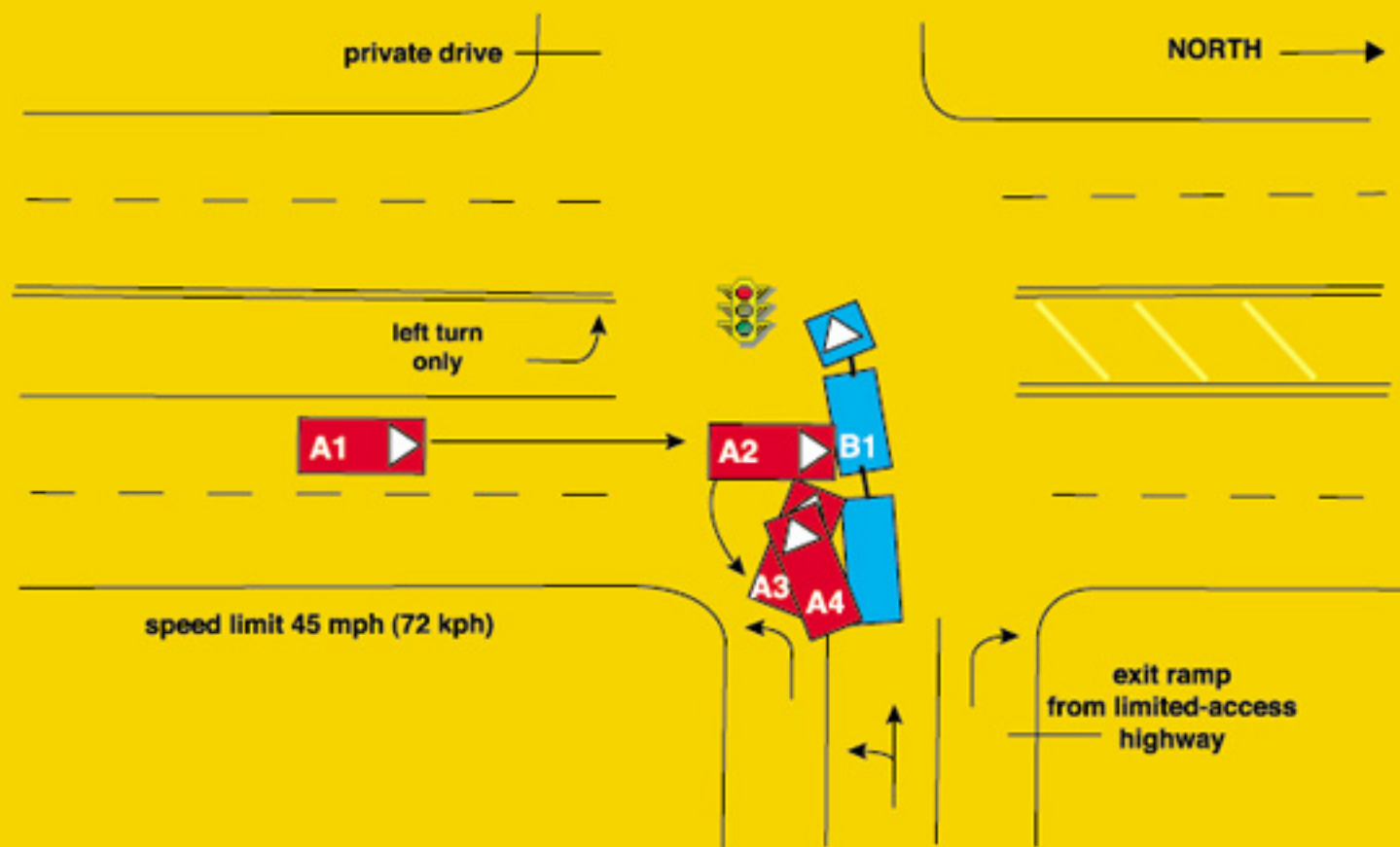
Vehicle (B): 1991 Peterbilt 357 tractor with double trailer

Weather: Clear

Road Surface: Dry

Road Construction: Concrete

Light Condition: Daylight



# Vehicle Report

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## General Conditions

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Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	<a href="#">more</a>
V207 — Limited Access Highway	0	No	<a href="#">more</a>
V208 — Road Total Lanes	4	4 lanes or more	<a href="#">more</a>
V209 — Intersecting Road Total Lanes	3	3 lanes	<a href="#">more</a>
V210 — Road Surface Type	2	Concrete	<a href="#">more</a>
V211 — Road Defects	0	No	<a href="#">more</a>
V212 — Construction Zone	0	No	<a href="#">more</a>
V213 — Road Alignment Vertical Plane	1	Level	<a href="#">more</a>
V214 — Road Alignment Horizontal Plane	1	Straight	<a href="#">more</a>
V215 — Surface Covering	10	Dry	<a href="#">more</a>
V216 — Visibility Limitation	0	None	<a href="#">more</a>
V217 — Visibility Obstruction	0	None	<a href="#">more</a>
V218 — Speed Limit	4	71-79 km/h .. 45 mph	<a href="#">more</a>
V219 — Precipitation Type	0	None	<a href="#">more</a>
V220 — Precipitation Rate	8	Not applicable	<a href="#">more</a>
V221 — Temperature	9	Unknown	<a href="#">more</a>

V222 — Crosswind	9	Unknown	<a href="#">more</a>
V223 — Light Conditions	1	Daylight	<a href="#">more</a>
V224 — Mechanical Malfunction Mention	0	No	<a href="#">more</a>
V225 — Case Vehicle and Object	0	No	<a href="#">more</a>
V226 — Case Vehicle Rollover	0	No	<a href="#">more</a>
V227 — Case Vehicle Ran Off Roadway	0	No	<a href="#">more</a>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	<a href="#">more</a>
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	<a href="#">more</a>
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	<a href="#">more</a>
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	<a href="#">more</a>
V232 — Any Fire in Crash	0	No	<a href="#">more</a>
V233 — Max Police Severity-PAR	1	C - Possible Injury	<a href="#">more</a>
V234 — Driver Alcohol Involvement	0	Had not been drinking	<a href="#">more</a>
V235 — Driver Alcohol BAC	80	Not tested	<a href="#">more</a>
V236 — Driver Impairment Mention	0	No	<a href="#">more</a>
V237 — Driven/Towed From Scene	2	Towed Due to Damage	<a href="#">more</a>

## Other Vehicle

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Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1XPADB0X9MD3	—	—
V302 — Other Vehicle Manufacturer/Body Code	16639	—	—
V303 — Other Vehicle Manufacturer	166	Peterbilt	<a href="#">more</a>
V304 — Other Vehicle Body Code	39	Truck or truck-tractor with full trailer	<a href="#">more</a>
V305 — Other Vehicle Make/Model	8123	—	—
V306 — Other Vehicle Model Year	1991	—	—
V307 — Other Vehicle Mass	999999	Unknown	<a href="#">more</a>
V308 — Other Vehicle Number	0	No separate report	<a href="#">more</a>
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	995	Just starting up	<a href="#">more</a>



V311 — Highest Police Injury Severity	0	0 - No Injury	<a href="#">more</a>
V312 — Other Vehicle Type	39	Truck (or semi) and full trailer (s)	<a href="#">more</a>
V313 — Other Vehicle Wheelbase (cm)	999	Unknown wheelbase	<a href="#">more</a>
V314 — Average Track Width	999	Unknown	<a href="#">more</a>
V315 — Overall Length	999	Unknown	<a href="#">more</a>
V316 — Overall Width (OAW)	999	Unknown	<a href="#">more</a>
V317 — Front Overhang (FOH)	999	Unknown	<a href="#">more</a>
V318 — Rear Overhang (ROH)	999	Unknown	<a href="#">more</a>
V319 — Undeformed End Width (UEW)	999	Unknown	<a href="#">more</a>
V320 — Engine Displacement	9.9 l	—	—
V321 — Engine: Number of Cylinders	99	Unknown	<a href="#">more</a>
V322 — Direct Damage Length (DDL)	999	Unknown	<a href="#">more</a>
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	<a href="#">more</a>
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	<a href="#">more</a>

## Case Vehicle General



[Click for case vehicle figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1FAFP13PZWW2	—	—
V402 — Manufacturer/Body Code	12126	—	—
V403 — Vehicle Manufacturer	121	Ford	<a href="#">more</a>
V404 — Vehicle Body Code	26	—	—
V405 — Make/Model Code	0219	Escort	<a href="#">more</a>
V406 — Model Year	1998	—	—
V407 — Vehicle Mass	001122 kg	—	—
V408 — Odometer Reading	047886 miles	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	<a href="#">more</a>
V411 — Body Type	14	4-door sedan	<a href="#">more</a>
V412 — Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V413 — Body Structure	2	Unitized	<a href="#">more</a>
V414 — Transmission Type	1	Automatic	<a href="#">more</a>

V415 — Transmission Lever Location	2	Console	<a href="#">more</a>
V416 — Steering	1	Power	<a href="#">more</a>
V417 — Brakes	1	Power	<a href="#">more</a>
V418 — Brake Type	2	Disc - front wheels	<a href="#">more</a>
V419 — Brake Anti-lock Device	1	Two-wheel	<a href="#">more</a>
V420 — Air Conditioning in Vehicle	8	Not currently collected	<a href="#">more</a>
V421 — Drive Type	2	Front wheel	<a href="#">more</a>
V422 — Dual Rear Wheels	0	No	<a href="#">more</a>
V423 — Original Restraint System Type	3	Airbag	<a href="#">more</a>
V424 — Equipped With Roll Bar	0	No	<a href="#">more</a>
V425 — Roof Type	1	Solid	<a href="#">more</a>
V426 — Wheelbase	250 cm	—	—
V427 — Anti-lacerative Glass	0	None	<a href="#">more</a>
V428 — Average Track Width	142 cm	—	—
V429 — Overall Length	444 cm	—	—
V430 — Overall Width (OAW)	170 cm	—	—
V431 — Front Overhang	089 cm	—	—
V432 — Rear Overhang	105 cm	—	—
V433 — Undeformed End Width (UEW)	150 cm	—	—
V434 — Engine Displacement	2.0 l	—	—
V435 — Engine: Number of Cylinders	04	—	—
V436 — Direct Damage Length (DDL)	138 cm	—	—
V437 — Front End Overlap % (FEO)	92	—	—
V438 — Vehicle Overlap % (VOL)	87	—	—

## Case Vehicle

### Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	057 cm	—	—
V502 — Maximum Crush - Right Side	016 cm	—	—
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>

V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V507 — Are Events In Chronological Order	1	Yes	<a href="#">more</a>
V508 — Event 1 Impact Location	1	On Roadway	<a href="#">more</a>
V509 — Event 1 Impact Configuration	13	FRONT of case veh - SIDE of contacted Vehicle	<a href="#">more</a>
V510 — Event 1 Object/Vehicle Contacted	39	Truck (or semi) and full trailer(s)	<a href="#">more</a>
V511 — Event 2 Impact Location	1	—	—
V512 — Event 2 Impact Configuration	43	RIGHT of case veh - SIDE of cont veh (no sideswipe)	<a href="#">more</a>
V513 — Event 2 Object/Vehicle Contacted	39	—	—
V514 — Event 3 Impact Location	1	On Roadway	<a href="#">more</a>
V515 — Event 3 Impact Configuration	43	—	—
V516 — Event 3 Object/Vehicle Contacted	39	—	—
V517 — Event 4 Impact Location	8	No 4th event	<a href="#">more</a>
V518 — Event 4 Impact Configuration	88	No 4th event	<a href="#">more</a>
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V520 — Event 5 Impact Location	8	No 5th event	<a href="#">more</a>
V521 — Event 5 Impact Configuration	88	No 5th event	<a href="#">more</a>
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V523 — Event 6 Impact Location	8	No 6th event	<a href="#">more</a>
V524 — Event 6 Impact Configuration	88	No 6th event	<a href="#">more</a>
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V526 — Event 7 Impact On Road	8	No 7th event	<a href="#">more</a>
V527 — Event 7 Impact Configuration	88	No 7th event	<a href="#">more</a>
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	<a href="#">more</a>
V530 — Primary CDC Case Vehicle	999		

- impact speed		Unknown	<a href="#">more</a>
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V532 — Primary CDC Case Vehicle -crush	057	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	<a href="#">more</a>
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	<a href="#">more</a>
V535 — Primary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	<a href="#">more</a>
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V538 — Primary CDC Case Vehicle Extent #1	03	Extent 3	<a href="#">more</a>
V539 — Primary CDC Case Vehicle -CDC #1	12FDEW3	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	<a href="#">more</a>
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	<a href="#">more</a>
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>

V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V563 — Primary CDC Contacted Vehicle -CDC #2	9900000	—	—
V564 — Secondary CDC Case Vehicle - Event No	2	Event 1	<a href="#">more</a>
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>
V566 — Secondary CDC Case Vehicle - Estimated By	1	—	—
V567 — Secondary CDC Case Vehicle -crush	016	—	—
V568 — Secondary CDC Case Vehicle -clock #1	03	3 o'clock	<a href="#">more</a>
V569 — Secondary CDC Case Vehicle letter 1 #1	18	R - Right Side	<a href="#">more</a>
V570 — Secondary CDC Case Vehicle letter 2 #1	06	F - Side Front (Left or Right)	<a href="#">more</a>
V571 — Secondary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V572 — Secondary CDC Case Vehicle letter 4 #1	14	N - Narrow impact area	<a href="#">more</a>
V573 — Secondary CDC Case Vehicle Extent #1	03	Extent 3	<a href="#">more</a>
V574 — Secondary CDC Case Vehicle -CDC #1	03RFEN3	—	—
V576 — Secondary CDC Case	00	Missing Data/Not applicable	<a href="#">more</a>

Vehicle letter 1 #2			
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>
V583 — Secondary CDC Contacted Vehicle - Estimated By	1	—	—
V584 — Secondary CDC Contacted Vehicle -crush	999	Unknown	<a href="#">more</a>
V585 — Secondary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	<a href="#">more</a>
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V591 — Secondary CDC Contacted Vehicle -CDC #1	9900000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V598 — Secondary CDC Contacted Vehicle -CDC #2	9900000	—	—

## Crash Severity

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Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	038 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-036 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	-010 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0076 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V608 — Primary Contacted Vehicle Reconstructed	888	N/A	<a href="#">more</a>

Total Delta-V			
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	8888	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V612 — Case Vehicle Secondary Impact Number	2	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	999	Unknown	<a href="#">more</a>
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	9999	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	9999	—	—



V617 — Secondary Case Vehicle Reconstruction Note	02	Insufficient data	<a href="#">more</a>
V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	<a href="#">more</a>
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta- V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	038 kph	—	—
V625 — Primary Case	-036 kph		

Vehicle Reconstructed Longitudinal EBS			—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	-010 kph		—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0076 kJ		—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level		<a href="#">more</a>
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage		<a href="#">more</a>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	888	N/A		<a href="#">more</a>
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	8888		—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888		—	—
V633 — Primary Contacted Vehicle Reconstruction	8888		—	—

Crush Energy			
V634 — Case Vehicle Secondary Impact Number	2	—	—
V635 — Secondary Case Vehicle Reconstruction Total EBS	999	Unknown	<a href="#">more</a>
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	9999	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	9999	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	9999	—	—
V639 — Secondary Case Vehicle Reconstruction Note	02	Insufficient data	<a href="#">more</a>
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V642 — Secondary Contacted Vehicle	8888	—	—

Reconstruction Longitudinal EBS			
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	<a href="#">more</a>
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	138 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	057 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	122 cm	—	—
V650 — Case Vehicle Impact 1 C1	048 cm	—	—
V651 — Case Vehicle Impact 1 C2	044 cm	—	—
V652 — Case Vehicle Impact 1 C3	052 cm	—	—
V653 — Case	033 cm		

Vehicle Impact 1 C4		—	—
V654 — Case Vehicle Impact 1 C5	001 cm	—	—
V655 — Case Vehicle Impact 1 C6	000 cm	No Crush	<a href="#">more</a>
V656 — Case Vehicle Impact 1 +/- D	0000 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	4	Above sill	<a href="#">more</a>
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	028 cm	—	—
V660 — Case Vehicle Impact 2 Max Crush	016 cm	—	—
V661 — Case Vehicle Impact 2 Field-L	999	Unknown	<a href="#">more</a>
V662 — Case Vehicle Impact 2 C1	999	Unknown	<a href="#">more</a>
V663 — Case Vehicle Impact 2 C2	999	Unknown	<a href="#">more</a>
V664 — Case Vehicle Impact 2 C3	999	Unknown	<a href="#">more</a>
V665 — Case Vehicle Impact 2 C4	999	Unknown	<a href="#">more</a>
V666 — Case	999		

Vehicle Impact 2 C5		Unknown	<a href="#">more</a>
V667 — Case Vehicle Impact 2 C6	999	Unknown	<a href="#">more</a>
V668 — Case Vehicle Impact 2 +/- D	0999 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	9	Unknown	<a href="#">more</a>
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	<a href="#">more</a>
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	<a href="#">more</a>
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	<a href="#">more</a>
V674 — Other Vehicle Impact 1 C1	999	Unknown	<a href="#">more</a>
V675 — Other Vehicle Impact 1 C2	999	Unknown	<a href="#">more</a>
V676 — Other Vehicle Impact 1 C3	999	Unknown	<a href="#">more</a>
V677 — Other Vehicle Impact 1 C4	999	Unknown	<a href="#">more</a>
V678 — Other Vehicle Impact 1 C5	999	Unknown	<a href="#">more</a>
V679 — Other	999		

Vehicle Impact 1 C6		Unknown	<a href="#">more</a>
V680 — Other Vehicle Impact 1 +/- D	0999 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	9	Unknown	<a href="#">more</a>
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	<a href="#">more</a>
V684 — Other Vehicle Impact 2 Max Crush	999	Unknown	<a href="#">more</a>
V685 — Other Vehicle Impact 2 Field-L	999	Unknown	<a href="#">more</a>
V686 — Other Vehicle Impact 2 C1	999	Unknown	<a href="#">more</a>
V687 — Other Vehicle Impact 2 C2	999	Unknown	<a href="#">more</a>
V688 — Other Vehicle Impact 2 C3	999	Unknown	<a href="#">more</a>
V689 — Other Vehicle Impact 2 C4	999	Unknown	<a href="#">more</a>
V690 — Other Vehicle Impact 2 C5	999	Unknown	<a href="#">more</a>
V691 — Other Vehicle Impact 2 C6	999	Unknown	<a href="#">more</a>
V692 — Other	0999 cm		

Vehicle Impact 2 +/- D		—	—
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### Case Vehicle Tires & Rims

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Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	<a href="#">more</a>
V702 — Right Front Wheel Damaged	1	Yes	<a href="#">more</a>
V703 — Right Rear Wheel Damaged	0	No	<a href="#">more</a>
V704 — Left Rear Wheel Damaged	0	No	<a href="#">more</a>
V705 — Left Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V706 — Right Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V707 — Right Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V708 — Left Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V709 — Left Front Carcass Construction	3	Radial	<a href="#">more</a>
V710 — Right Front Carcass Construction	3	Radial	<a href="#">more</a>
V711 — Right Rear Carcass Construction	3	Radial	<a href="#">more</a>
V712 — Left Rear Carcass Construction	3	Radial	<a href="#">more</a>
V717 — Left Front Tire Size	P18565R14	—	—
V718 — Right Front Tire Size	P18565R14	—	—
V719 — Right Rear Tire Size	P18565R14	—	—
V720 — Left Rear Tire Size	P18565R14	—	—

### Case Vehicle Fuel, Tank, Fire

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Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	<a href="#">more</a>
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	<a href="#">more</a>





V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	<a href="#">more</a>
V804 — Main Tank Material	9	Unknown	<a href="#">more</a>
V805 — Aux Tank Type	8	Not applicable (not equipped)	<a href="#">more</a>
V806 — Aux Tank Location	888	Not applicable (not equipped)	<a href="#">more</a>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	<a href="#">more</a>
V808 — Aux Tank Material	8	Not applicable	<a href="#">more</a>
V901 — Fuel Leakage From Crash	0	No	<a href="#">more</a>
V1001 — Fire In Or On Case Vehicle	0	No	<a href="#">more</a>

## Case Vehicle Exterior

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Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	<a href="#">more</a>
V1102 — Hood Latch Damaged	1	Yes	<a href="#">more</a>
V1103 — Hood Latch Jammed	1	Yes	<a href="#">more</a>
V1104 — Left Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1105 — Left Hood Hinge Separated	0	No	<a href="#">more</a>
V1106 — Right Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1107 — Right Hood Hinge Separated	0	No	<a href="#">more</a>
V1108 — Hood Remained On Vehicle	1	Yes	<a href="#">more</a>
V1109 — Rear Hood Edge Elevated	1	Yes	<a href="#">more</a>
V1110 — Edge Contacted Windshield	1	Yes	<a href="#">more</a>
V1111 — Edge Penetrated Windshield	0	No	<a href="#">more</a>
V1112 — Hood Latch Location	1	Front of Vehicle	<a href="#">more</a>
V1113 — Eng/Transmissn Mount Separation	0	No	<a href="#">more</a>
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	<a href="#">more</a>
V1115 — Steerng Column Coupling Damaged	9	Unknown	<a href="#">more</a>
V1116 — Steerng Column Coupling Separated	9	Unknown	<a href="#">more</a>
V1117 — Eng Comp Telescopng Unit	88	Not collected	<a href="#">more</a>
V1118 — Comp Orig/Telescopd Diff	888	Not collected	<a href="#">more</a>
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>

V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1122 — Upper Left B-pillar Separation	0	No	<a href="#">more</a>
V1123 — Lower Left B-pillar Separation	0	No	<a href="#">more</a>
V1124 — Upper Left C-pillar Separation	0	No	<a href="#">more</a>
V1125 — Lower Left C-pillar Separation	0	No	<a href="#">more</a>
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1128 — Left Front Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1129 — Left Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1130 — Left Front Door Jammed Closed	1	Yes	<a href="#">more</a>
V1131 — Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132 — Rear Door Type	0	No door (includes pickups)	<a href="#">more</a>
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	<a href="#">more</a>
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	<a href="#">more</a>
V1135 — Luggage Partition Damagd	8	Not applicable	<a href="#">more</a>
V1136 — Spare Tire Status	8	Not collected	<a href="#">more</a>
V1137 — Trailer Hitch Type	0	No hitch	<a href="#">more</a>
V1138 — Trailer Type	0	No trailer	<a href="#">more</a>
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1140 — Upper Right A-pillar Separation	0	No	<a href="#">more</a>
V1141 — Lower Right A-pillar Separation	0	No	<a href="#">more</a>
V1142 — Upper Right B-pillar Separation	0	No	<a href="#">more</a>
V1143 — Lower Right B-pillar Separation	0	No	<a href="#">more</a>
V1144 — Upper Right C-pillar	0	No	<a href="#">more</a>

Separation			
V1145 — Lower Right C-pillar Separation	0	No	<a href="#">more</a>
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1148 — Right Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1149 — Right Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1150 — Right Front Door Jammed Closed	0	No	<a href="#">more</a>
V1151 — Right Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1152 — Van Rear Door Type	8	Not applicable (not a van)	<a href="#">more</a>
V1153 — Windshield Cracked	 <a href="#">Click for windshield damage figure</a>	Yes	<a href="#">more</a>
V1154 — Windshield Broken	0	No	<a href="#">more</a>
V1155 — Windshield Cracked or Broken by Occupant	0	No	<a href="#">more</a>
V1156 — Bond Separation Extent	0	None	<a href="#">more</a>
V1157 — Windshield Code	 <a href="#">Click for windshield code figure</a>	—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	<a href="#">more</a>

**Case Vehicle  
Steering  
Column/Rim**

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Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	<a href="#">more</a>
V1202 — Number of Steering Wheel Spokes	4	4 spokes	<a href="#">more</a>

V1203 — Steering Wheel Spoke Damage	0	None	<a href="#">more</a>
V1204 — Column Tilt Feature	1	Yes, equipped (position unknown)	<a href="#">more</a>
V1205 — Column Swing-away Feature	0	Not equipped	<a href="#">more</a>
V1206 — Column Telescoping Feature	0	Not equipped	<a href="#">more</a>
V1207 — Wheel Energy Absorb Device	8	Not collected	<a href="#">more</a>
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	<a href="#">more</a>
V1209 — Column Energy Absorb Device	88	Not collected	<a href="#">more</a>
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	<a href="#">more</a>
V1211 — Shear Capsule Separation	888	Not collected	<a href="#">more</a>
V1212 — Column Vertical Rotation	2	Downward apparent rotation	<a href="#">more</a>
V1213 — Column Lateral Rotation	1	Left apparent rotation	<a href="#">more</a>
V1214 — Steering Wheel Hub Damage	0	None	<a href="#">more</a>

## Case Vehicle Intrusion



Click for intrusion figures

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Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	<a href="#">more</a>
V1302 — Was Intrusion Catastrophic	0	No	<a href="#">more</a>
V1303 — Intrusion Number 01	01	Intrusion #1	<a href="#">more</a>
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1305 — Intrusion 01 Intruding Object	03	Toe pan	<a href="#">more</a>
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1307 — Intrusion 01 Max Intrusion X-axis	19 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1309 — Intrusion 01 Max Intrusion	00 cm	0 cm or No Intrusion	<a href="#">more</a>

Z-axis			
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1314 — Intrusion Number 02	02	Intrusion #2	<a href="#">more</a>
V1315 — Intrusion 02 Occupant Space Number	13	First row, Right seat	<a href="#">more</a>
V1316 — Intrusion 02 Intruding Object	03	Toe pan	<a href="#">more</a>
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1318 — Intrusion 02 Max Intrusion X-axis	09 cm	—	—
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1325 — Intrusion Number 03	00	No Intrusion, None	<a href="#">more</a>
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	<a href="#">more</a>

V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1335 — Intrusion 03 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1336 — Intrusion Number 04	00	No Intrusion, None	<a href="#">more</a>
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1347 — Intrusion Number 05	00	No Intrusion, None	<a href="#">more</a>
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
	99	Contact, injury unknown or data	

V1357 — Intrusion 05 Injury Number		not collected	<a href="#">more</a>
V1358 — Intrusion Number 06	00	No Intrusion, None	<a href="#">more</a>
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1369 — Intrusion Number 07	00	No Intrusion, None	<a href="#">more</a>
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1380 — Intrusion Number 08	00	No Intrusion, None	<a href="#">more</a>

V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1391 — Intrusion Number 09	00	No Intrusion, None	<a href="#">more</a>
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1402 — Intrusion Number 10	00	No Intrusion, None	<a href="#">more</a>
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1404 — Intrusion 10 Intruding	00		



Object		No Intrusion, None	<a href="#">more</a>
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1413 — Door Intrusion Number 01	88	Not Applicable	<a href="#">more</a>
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	<a href="#">more</a>
V1415 — Door Intrusion Number 02	88	Not Applicable	<a href="#">more</a>
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	<a href="#">more</a>
V1417 — Door Intrusion Number 03	88	Not Applicable	<a href="#">more</a>
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	<a href="#">more</a>
V1419 — Door Intrusion 01 Component	88	Not Applicable	<a href="#">more</a>
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1422 — Door Intrusion 02 Component	88	Not Applicable	<a href="#">more</a>
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1425 — Door Intrusion 03 Component	88	Not Applicable	<a href="#">more</a>
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	<a href="#">more</a>

V1428 — Door Intrusion 04 Component	88	Not Applicable	<a href="#">more</a>
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	<a href="#">more</a>

**Case Vehicle  
Airbag(s)**



[Click for Driver airbag figure](#)



[Click for Passenger airbag figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	<a href="#">more</a>
V1502 — Driver Airbag Deployed	1	Yes	<a href="#">more</a>
V1503 — Driver Airbag Condition	0	No Damage	<a href="#">more</a>
V1504 — Passenger Airbag Equip	1	Yes	<a href="#">more</a>
V1505 — Passenger Airbag Deployed	1	Yes	<a href="#">more</a>
V1506 — Passenger Airbag Condition	0	No Damage	<a href="#">more</a>
V1507 — Steering Wheel Airbag Tether	1	Yes	<a href="#">more</a>
V1508 — Driver Airbag Marked By Contact	1	Yes	<a href="#">more</a>
V1509 — Passenger Airbag Tether	0	No	<a href="#">more</a>
V1510 — Passenger Airbag Marked By Contact	0	No	<a href="#">more</a>

**Case Vehicle  
Interior**

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Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	1	Yes	<a href="#">more</a>
V1602 — Right Front Door Damaged	0	No	<a href="#">more</a>
V1603 — Left Front Hardware Damaged	0	No	<a href="#">more</a>
V1604 — Right Front Hardware Damaged	0	No	<a href="#">more</a>
V1605 — Left Front Armrest Damaged	0	No	<a href="#">more</a>

V1606 — Right Front Armrest Damaged	0	No	<a href="#">more</a>
V1607 — Left Front Glass Damaged	1	Yes	<a href="#">more</a>
V1608 — Right Front Glass Damaged	0	No	<a href="#">more</a>
V1609 — Left Rear Door Area Damaged	0	No	<a href="#">more</a>
V1610 — Right Rear Door Area Damaged	1	Yes	<a href="#">more</a>
V1611 — Left Rear Hardware Damaged	0	No	<a href="#">more</a>
V1612 — Right Rear Hardware Damaged	0	No	<a href="#">more</a>
V1613 — Left Rear Armrest Damaged	0	No	<a href="#">more</a>
V1614 — Right Rear Armrest Damaged	0	No	<a href="#">more</a>
V1615 — Left Rear Glass Damaged	0	No	<a href="#">more</a>
V1616 — Right Rear Glass Damaged	1	Yes	<a href="#">more</a>
V1617 — Left Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1618 — Right Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1619 — Left B-pillar Damaged	0	No	<a href="#">more</a>
V1620 — Right B-pillar Damaged	0	No	<a href="#">more</a>
V1621 — Left C-pillar Damaged	0	No	<a href="#">more</a>
V1622 — Right C-pillar Damaged	0	No	<a href="#">more</a>
V1623 — Left D-pillar Damaged	8	Not applicable	<a href="#">more</a>
V1624 — Right D-pillar Damaged	8	Not applicable	<a href="#">more</a>
V1625 — Left Headlining Damaged	0	No	<a href="#">more</a>
V1626 — Right Headlining Damaged	0	No	<a href="#">more</a>
V1627 — Left Roof Structure Damaged	0	No	<a href="#">more</a>
V1628 — Right Roof Structure Damaged	0	No	<a href="#">more</a>
V1629 — Left T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>
V1630 — Right T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>
V1631 — Other Left Side Item Damaged	8	Not applicable	<a href="#">more</a>
V1632 — Other Right Side Item Damaged	8	Not applicable	<a href="#">more</a>
V1633 — Foot Controls Damaged	0	No	<a href="#">more</a>

V1634 — Ignition Key Damaged	0	No	<a href="#">more</a>
V1635 — Rear View Mirror Damaged	0	No	<a href="#">more</a>
V1636 — Sunvisor/Fitting Damaged	0	No	<a href="#">more</a>
V1637 — Windshield Molding Damaged	0	No	<a href="#">more</a>
V1638 — Left A-pillar Damaged	0	No	<a href="#">more</a>
V1639 — Right A-pillar Damaged	0	No	<a href="#">more</a>
V1640 — Center Console Damaged	0	No	<a href="#">more</a>
V1641 — Transmission Lever Damaged	0	No	<a href="#">more</a>
V1642 — Horn/Spoke Shroud Damaged	0	No	<a href="#">more</a>
V1643 — Upper Panel Damaged	0	No	<a href="#">more</a>
V1644 — Mid Panel Damaged	4	Yes, occupant contact	<a href="#">more</a>
V1645 — Lower Panel Damaged	4	Yes, occupant contact	<a href="#">more</a>
V1646 — Ashtray Damaged	0	No	<a href="#">more</a>
V1647 — Control Knob/Lever Damaged	0	No	<a href="#">more</a>
V1648 — Glove Compartment Area Damaged	0	No	<a href="#">more</a>
V1649 — Instruments Damaged	0	No	<a href="#">more</a>
V1650 — Park Brake Release Damaged	0	No	<a href="#">more</a>
V1651 — Park Brake Pedal Damaged	0	No	<a href="#">more</a>
V1652 — A/C Or Upper Vent Damaged	0	No	<a href="#">more</a>
V1653 — Heater Or A/C Duct Damaged	0	No	<a href="#">more</a>
V1654 — Radio Damaged	0	No	<a href="#">more</a>
V1655 — Other Item Damaged	8	Not applicable	<a href="#">more</a>
V1656 — Rear Window Damaged	0	No	<a href="#">more</a>
V1657 — Rear Window Header Damaged	0	No	<a href="#">more</a>
V1658 — Vertical Console Damaged	0	No	<a href="#">more</a>
V1659 — Roof Console Damaged	8	Not applicable	<a href="#">more</a>

## Case Vehicle Seats

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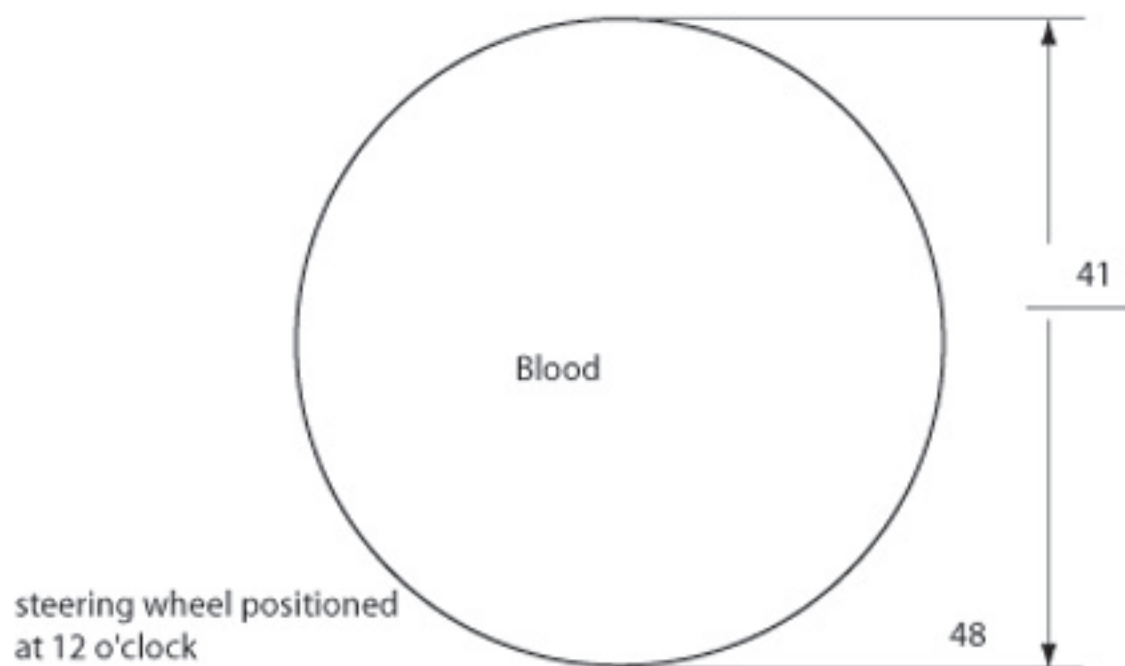
Variable Number and Name	Code Value	Code Description	Other Options

V1701 — Driver Front Seat Type	05	Bucket	<a href="#">more</a>
V1702 — Passenger Front Seat Type	05	Bucket	<a href="#">more</a>
V1703 — Driver Seat Mount Type	1	Standard	<a href="#">more</a>
V1704 — Passenger Seat Mount Type	1	Standard	<a href="#">more</a>
V1705 — Driver Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1706 — Passenger Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1707 — Driver Seat Original Equipment	1	Yes	<a href="#">more</a>
V1708 — Passenger Seat Original Equipment	1	Yes	<a href="#">more</a>
V1709 — Driver Seat/Rear Occupant Contact	0	No	<a href="#">more</a>
V1710 — Passenger Seat/Rear Occupant Contact	0	No	<a href="#">more</a>
V1711 — Driver Seat Damage	0	None	<a href="#">more</a>
V1712 — Passenger Seat Damage	0	None	<a href="#">more</a>
V1713 — Center Front Armrest Damaged	8	Not applicable (no center armrest)	<a href="#">more</a>
V1714 — Driver Seat Rotation	0	None apparent	<a href="#">more</a>
V1715 — Passenger Seat Rotation	0	None apparent	<a href="#">more</a>
V1716 — Driver Seat-back Type	3	Reclining	<a href="#">more</a>
V1717 — Passenger Seat-back Type	3	Reclining	<a href="#">more</a>
V1718 — Driver Seat-back Lock Type	1	Manual	<a href="#">more</a>
V1719 — Passenger Seat-back Lock Type	1	Manual	<a href="#">more</a>
V1720 — Driver Seat-back Lock Held	1	Yes	<a href="#">more</a>
V1721 — Passenger Seat-back Lock Held	1	Yes	<a href="#">more</a>
V1722 — Driver Recliner Mechanism Held	1	Yes	<a href="#">more</a>
V1723 — Passenger Recliner Mechanism Held	1	Yes	<a href="#">more</a>
V1724 — Driver Head Restraint Type	1	Adjustable	<a href="#">more</a>
V1725 — Passenger Head Restraint Type	1	Adjustable	<a href="#">more</a>

V1726 — Driver Head Rest Removed	0	No	<a href="#">more</a>
V1727 — Passenger Head Rest Removed	0	No	<a href="#">more</a>
V1728 — Driver Head Rest Adjustment	1	Up	<a href="#">more</a>
V1729 — Passenger Head Rest Adjustment	2	Down	<a href="#">more</a>
V1730 — Driver Head Rest Damage	0	None	<a href="#">more</a>
V1731 — Passenger Head Rest Damage	0	None	<a href="#">more</a>
V1732 — Driver Seat Adjustment Type	1	Manual	<a href="#">more</a>
V1733 — Passenger Seat Adjustment Type	1	Manual	<a href="#">more</a>
V1734 — Driver Seat Adjustment Provided	1	2-way	<a href="#">more</a>
V1735 — Passenger Seat Adjustment Provided	1	2-way	<a href="#">more</a>
V1736 — Driver Seat Adjuster Damage	0	None	<a href="#">more</a>
V1737 — Passenger Seat Adjuster Damage	0	None	<a href="#">more</a>
V1738 — Driver Seat Adjuster Separation	8	Not applicable	<a href="#">more</a>
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	<a href="#">more</a>
V1740 — Driver Seat Pre-crash Position	2	Middle	<a href="#">more</a>
V1741 — Passenger Seat Pre-crash Position	3	Rearward	<a href="#">more</a>
V1742 — Left Rear Seat Type	6	Luggage area access panel	<a href="#">more</a>
V1743 — Right Rear Seat Type	6	Luggage area access panel	<a href="#">more</a>
V1744 — Left Rear Seat Damaged	1	Backrest only (damaged or loosened)	<a href="#">more</a>
V1745 — Right Rear Seat Damaged	1	Backrest only (damaged or loosened)	<a href="#">more</a>
V1746 — Center Rear Armrest Damaged	8	Not applicable (No Center Armrest)	<a href="#">more</a>
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	<a href="#">more</a>
V1748 — Right Rear Seat-back Left Lock Equipped	8	Not applicable	<a href="#">more</a>

V1749 — Left Rear Seat-back Left Lock Held	0	No	<a href="#">more</a>
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	<a href="#">more</a>
V1751 — Left Rear Seat-back Right Lock Equipped	8	Not applicable	<a href="#">more</a>
V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	<a href="#">more</a>
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	<a href="#">more</a>
V1754 — Right Rear Seat-back Right Lock Held	0	No	<a href="#">more</a>
V1755 — Left 3rd Seat Equipped	0	No	<a href="#">more</a>
V1756 — Right 3rd Seat Equipped	0	No	<a href="#">more</a>
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	<a href="#">more</a>
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	<a href="#">more</a>
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	<a href="#">more</a>
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	<a href="#">more</a>
V1761 — Rear Head Restraints	0	Not Equipped (or removed)	<a href="#">more</a>

### Driver Airbag

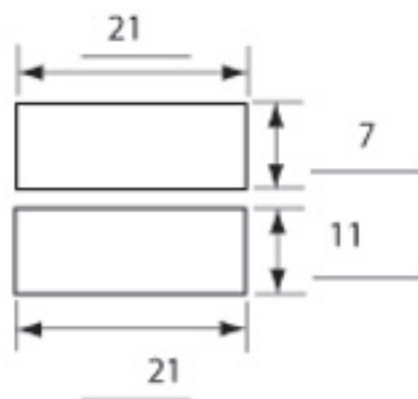


Vents:  Y N  
if yes, how many: 2

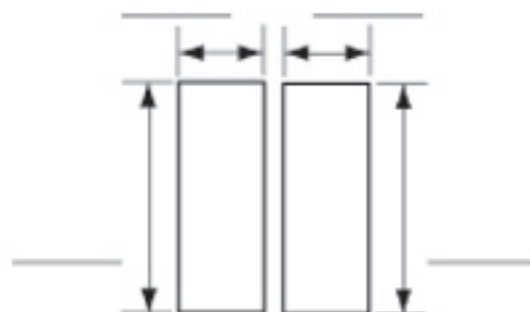
Tethers:  Y N  
if yes, how many: 2

Vents at 11 and 1 o'clock

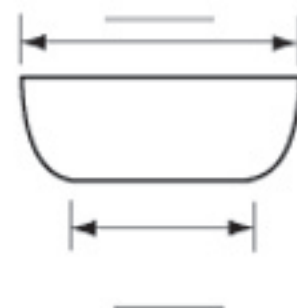
### Driver Airbag Doors



H-Pattern

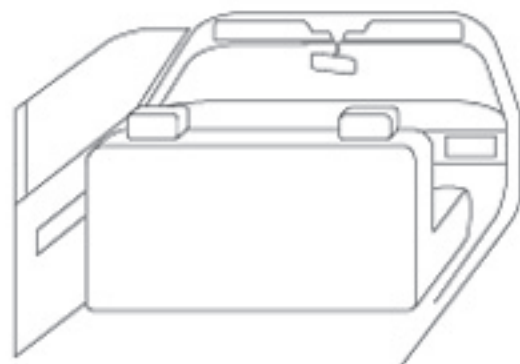
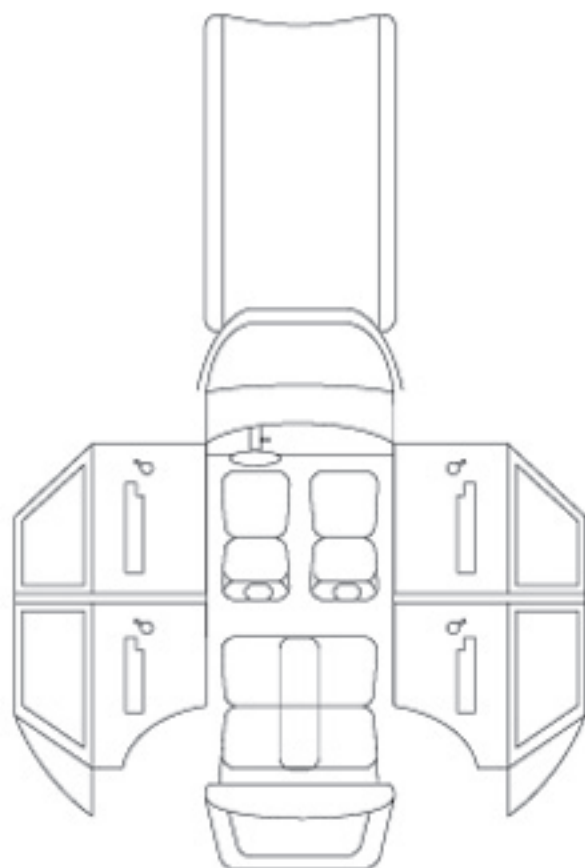


I-Pattern

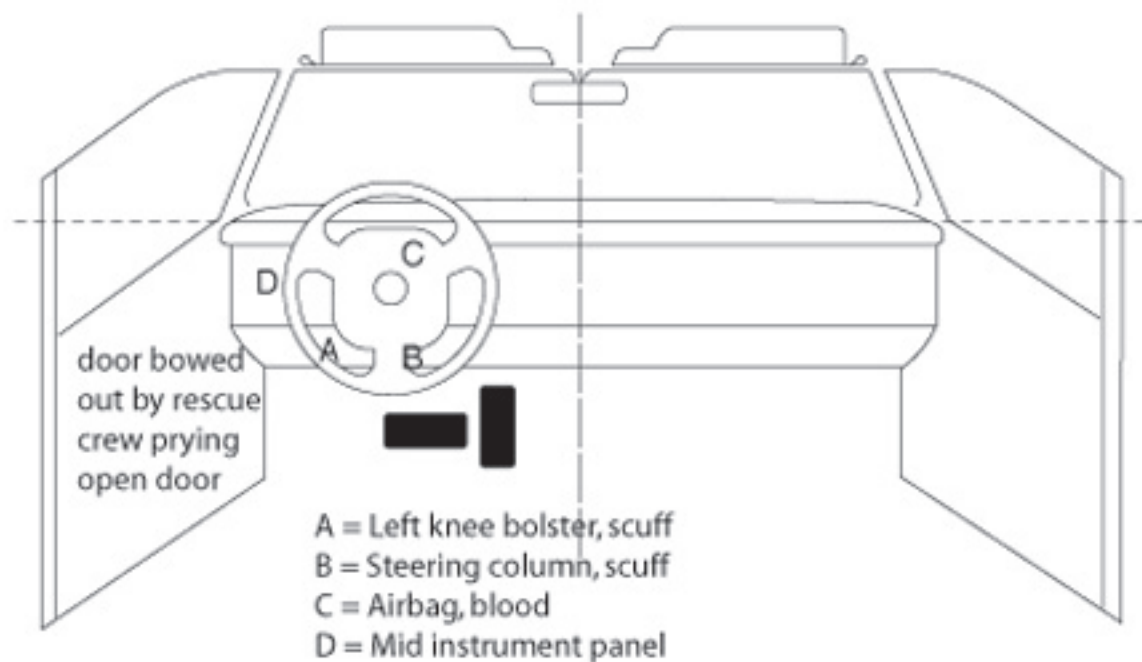


Single Door





DR Belt: Up on B-pillar  
 D-ring Marks  
 Webbing marks  
 Continuous loop marks



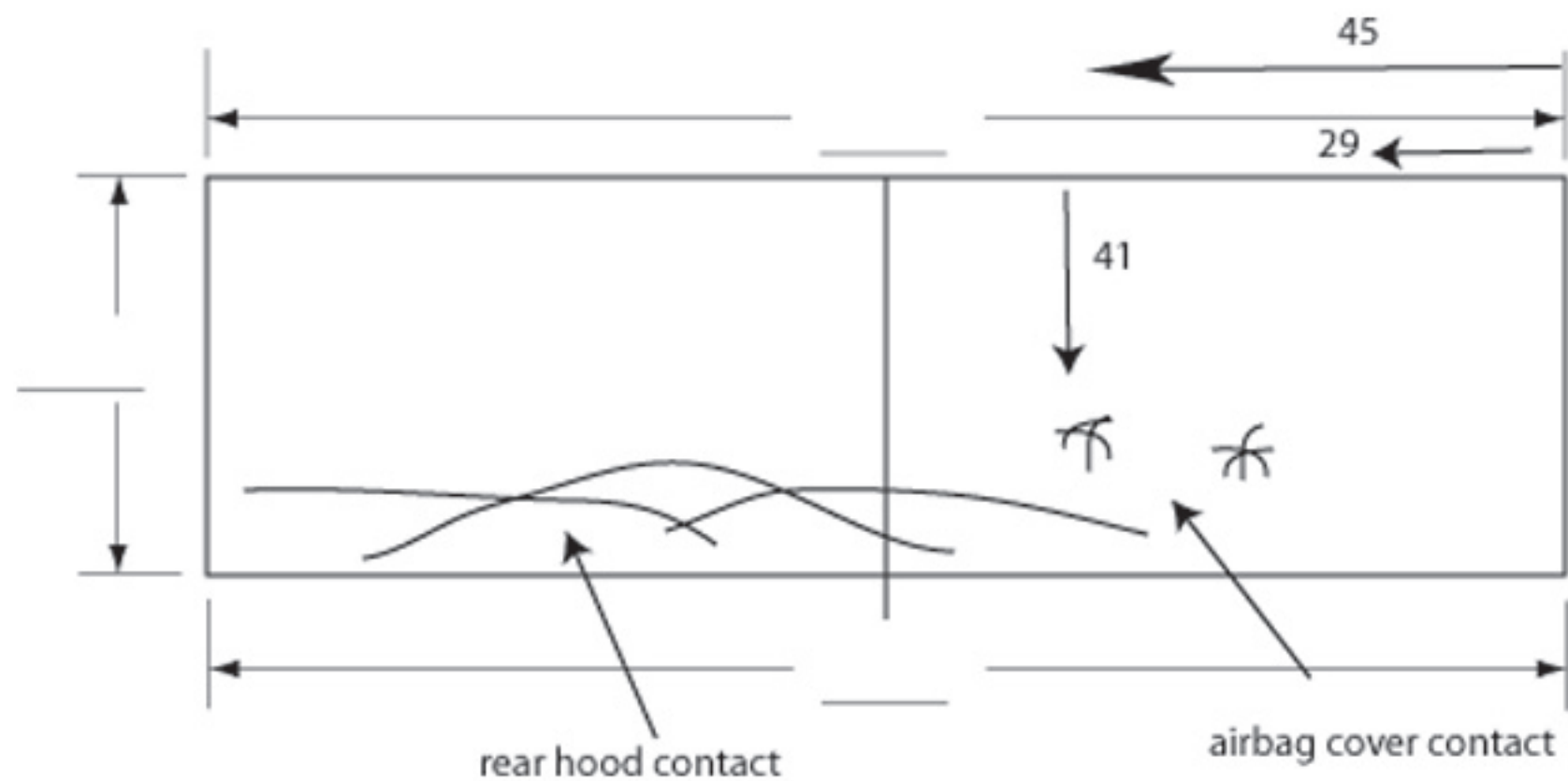
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	Toepan	99	–	80	=	19	to rear
13	Toepan	99	–	90	=	9	to rear
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Left knee bolster	1	Knee	Dent, scuff	1
B	Steering column	1	Knee	Scuff	1
C	Airbag	1	Face	Blood	2
D	Mid instrument panel	1	Knee	Dent, scuff	1
E					
F					
G					
H					



WINDSHIELD MARK ON CASE VEHICLE:

FORD

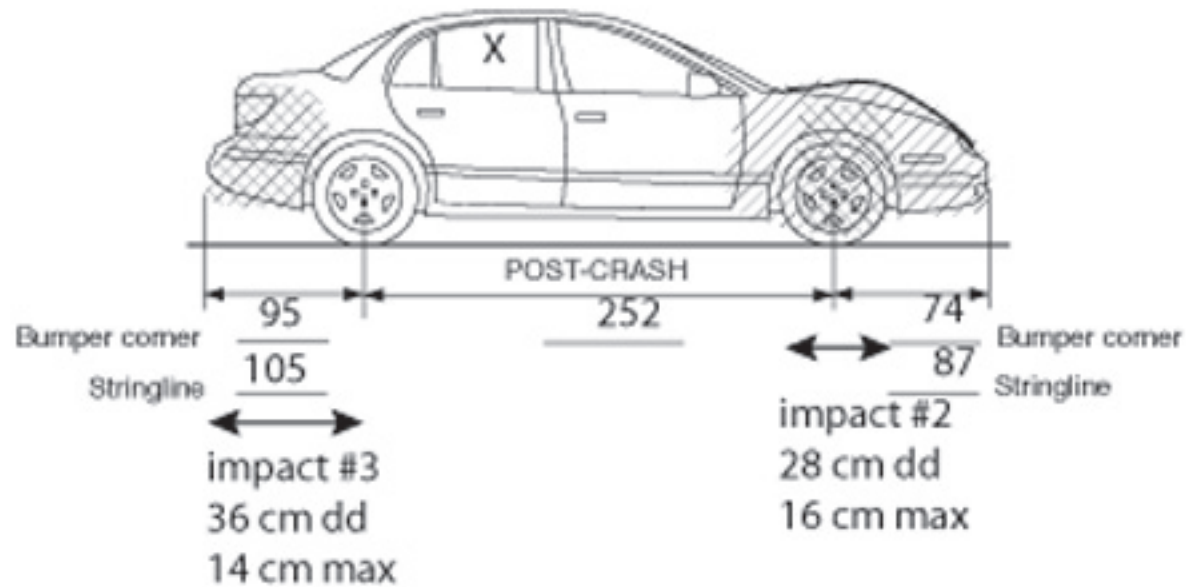
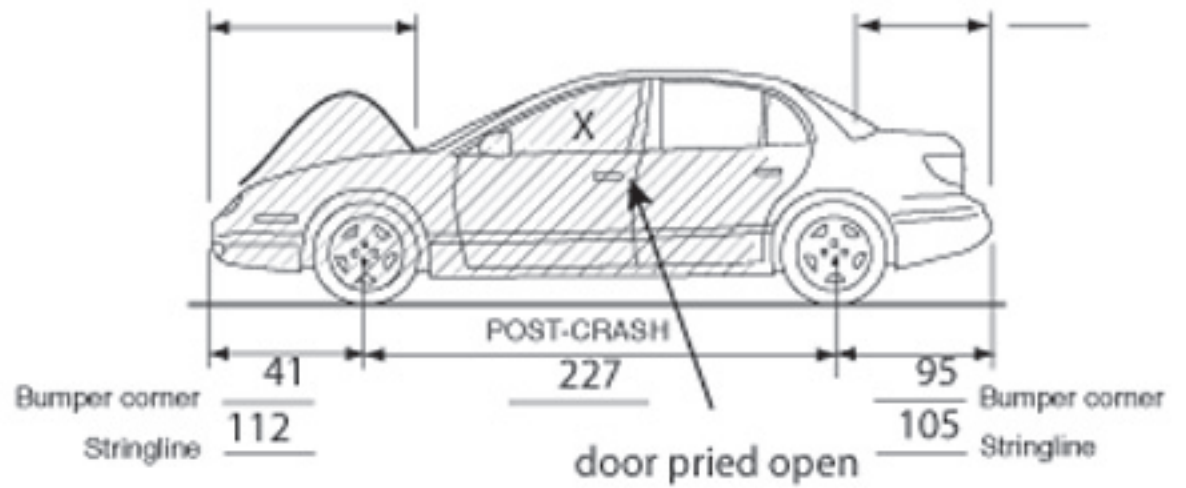
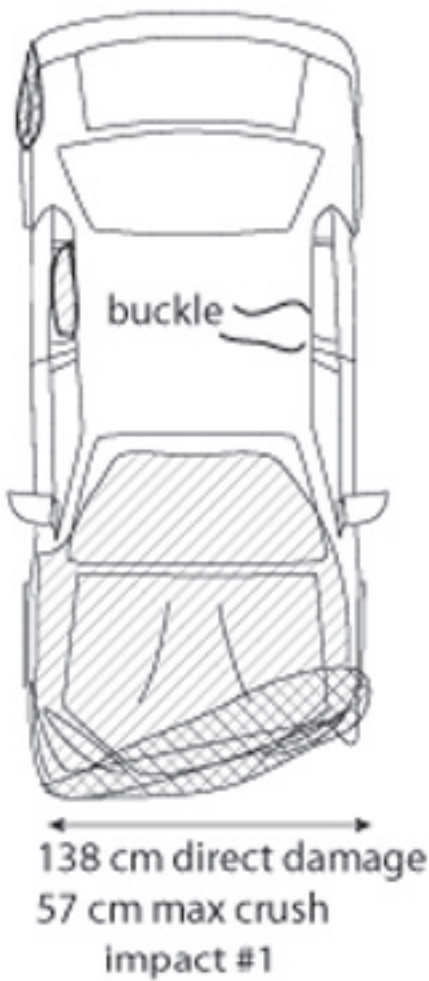
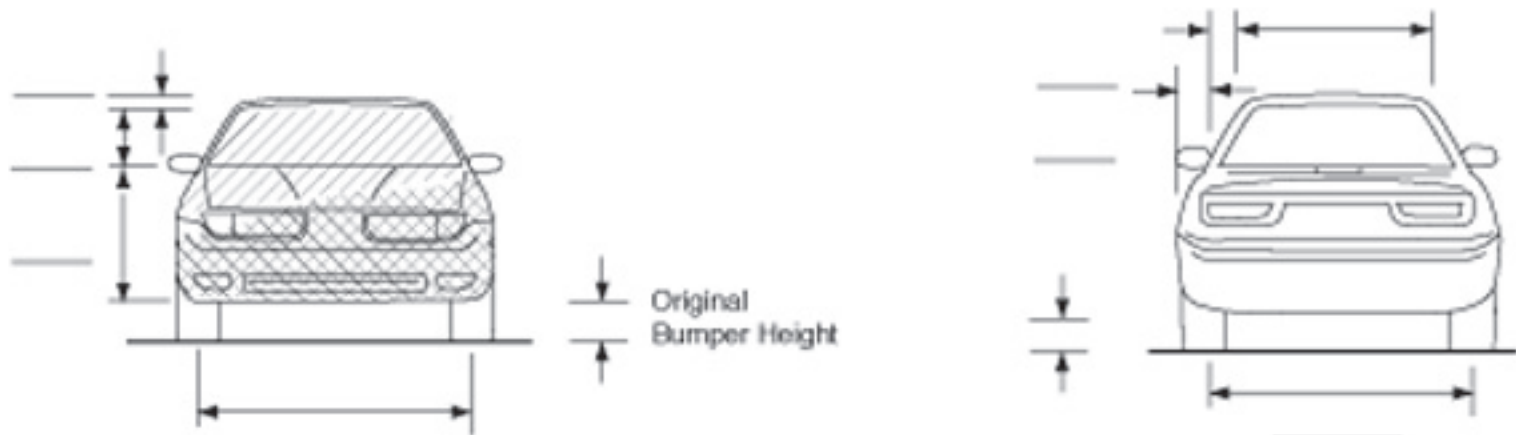
(N) LAMINATED (R)

ASI

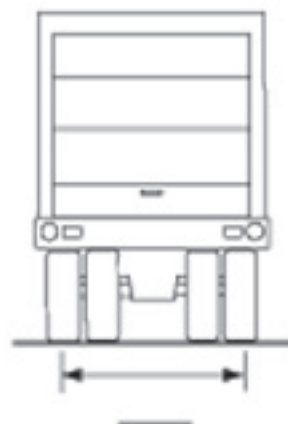
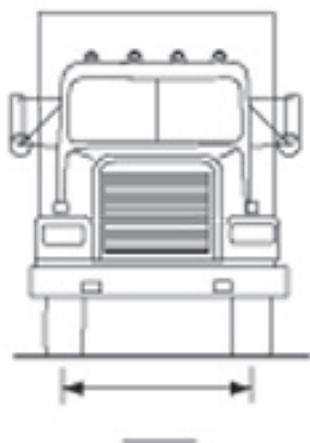
DOT - 75 MI53

DW-1283

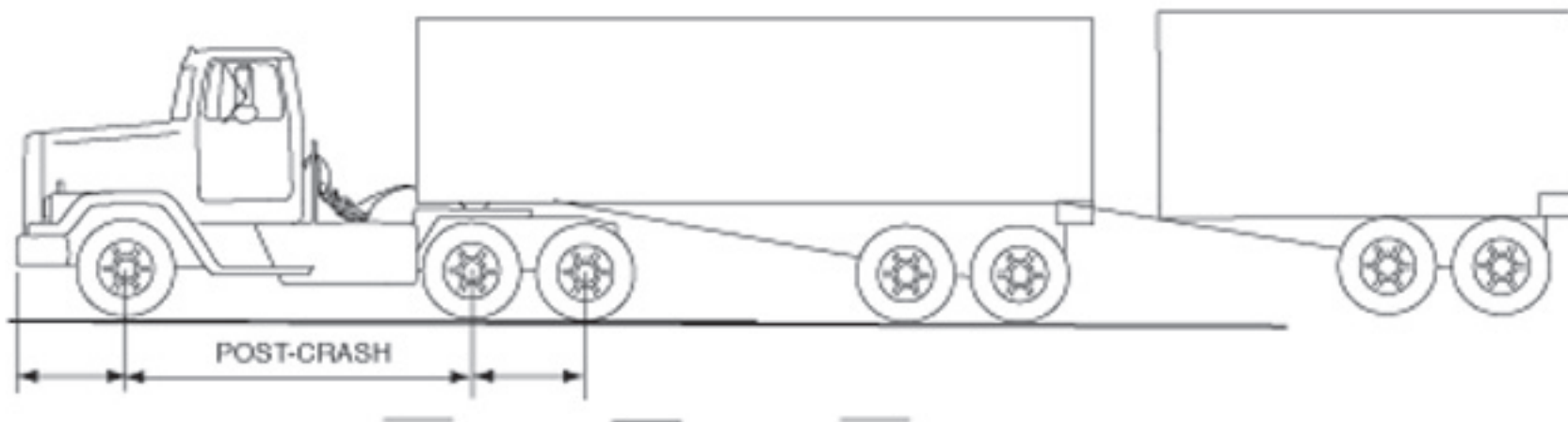
MEASUREMENTS IN CENTIMETERS



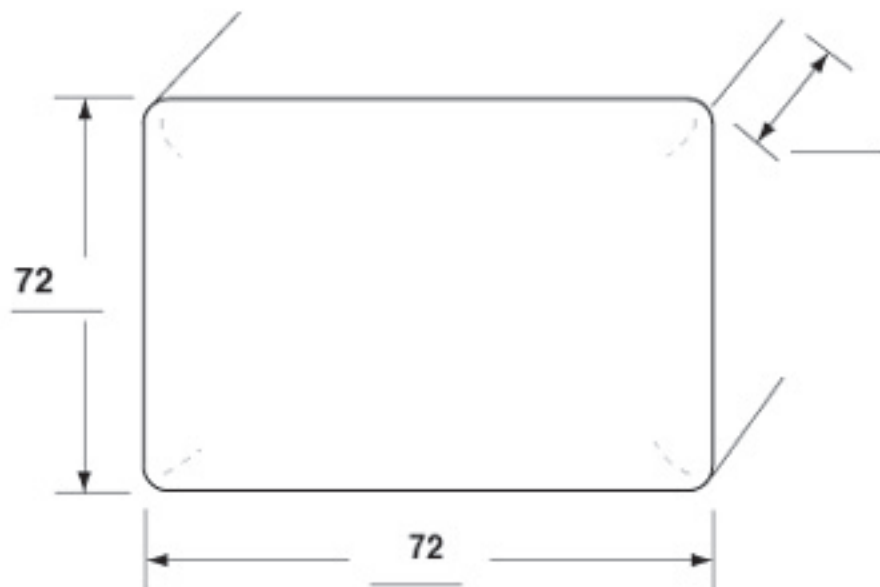
MEASUREMENTS IN CENTIMETERS



**No inspection  
driven away**

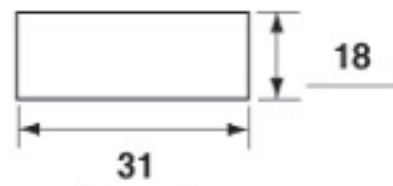


Passenger Airbag



Passenger Airbag Doors

Single Door



cover bent up and contacted windshield

Vents:  Y  N 2  
if yes, how many: \_\_\_\_\_

Tethers: Y  N \_\_\_\_\_  
if yes, how many: \_\_\_\_\_

11:00 and 1:00











DR





326008A













DR



























**WARNING**  
DO NOT REMOVE OR COVER THIS LABEL  
OR THE AIR BAGS WILL NOT WORK  
PROPERLY. AIR BAGS ARE DESIGNED TO  
WORK WITH SEATBELTS. ALWAYS WEAR  
YOUR SEATBELT. NEVER DRINK AND  
DRIVE. NEVER DRIVE UNDER THE  
INFLUENCE OF DRUGS. NEVER DRIVE  
WHILE DISTRACTED. NEVER DRIVE  
WHILE TALKING ON A CELLPHONE.  
NEVER DRIVE WHILE OPERATING A  
HANDHELD DEVICE. NEVER DRIVE  
WHILE OPERATING A PORTABLE  
ELECTRONIC DEVICE. NEVER DRIVE  
WHILE OPERATING A PORTABLE  
ELECTRONIC DEVICE. NEVER DRIVE  
WHILE OPERATING A PORTABLE  
ELECTRONIC DEVICE.































































































*Sport*





















































































ONLY



